CITY OF CHULA VISTA

STANDARD SPECIAL PROVISIONS

DATED OCTOBER 2002

For use with the APWA/AGC "Greenbook"
Standard Specifications for
Public Works Construction
2000 Edition

and

Regional Supplement Amendments
Approved and Adopted by the
San Diego Regional Standards Committee
April 2000

_____
City Engineer

_____
Date

The second pass shall be made with the roller centered longitudinally on the 4" to 6" strip. With the approval of the inspector, the 4" to 6" wide strip may be compacted on the return trip of the first pass of the roller. Remaining passes shall be in accordance with the Standard Specifications.

Asphalt concrete raking -- no asphalt concrete will be allowed to be broadcast over the finished mat solely as a means of disposing of excess aggregate. Joints will be raked or shoveled clean and excess asphalt will be disposed of by hauling away or broadcast in front of paver or placed into hopper of paver. All other raking will be in accordance with the Standard Specifications.

302-5.8 **Manholes (and other structures)**

(p. 250) Delete first and third paragraphs and add the following:

Manhole and Valve Box Covers

Unless otherwise specified, the paving contractor will be required to adjust all manhole, valve box, cleanout, and monument covers.

Prior to paving, all covers shall be tied-off by the contractor in manner that will permit determination of their exact locations after paving.

All manhole, valve box, cleanout, and monument covers shall be set to final grade after pavement has been completed in accordance with Section 302-5.8. The subgrade, base, and pavement shall be neatly removed a distance of 12 inches from the edge of cover. All spoils shall be removed from the site. Adjustments to grade greater than 4 inches shall be made using precast concrete manhole components in accordance with applicable Regional Standard Drawings. 3250 psi concrete shall be used for all other adjustments.

302-5.10 **Seal Coat**, Add:

Type B Seal Coats

Type B seal coats shall consist of a high viscosity type emulsion (RS-2h or CRS-2h). The emulsion shall be spread at a rate not to exceed 0.30 gallons per square yard unless otherwise directed by the Engineer; the exact rate shall be determined by the Engineer. A rubber additive shall be mixed with the emulsion at no cost to the City. The additive Ultra Pave 70 manufactured by Western Division Textile Rubber and Chemical Co., Inc., or equal, shall be added to the binder at the rate of 25 gallons per 1,000 gallons of emulsion.

Additive shall be added at the job site in the presence of the Engineer. Additive shall be thoroughly mixed with the binder before being applied to the pavement.

The temperature of the emulsion prior to application shall range from a minimum of 150°F to a maximum of 190°F. Immediately following the application of the

(p. 293) When placing the tops to concrete drainage and sewer structures within the surface of the sidewalk, the tops to concrete drainage and sewer structures shall be monolithic for the full width of the curb, gutter and sidewalk. The top of the structure shall be imprinted with a Storm Drain Stencil per CVCS-24. When placing the tops of concrete drainage and sewer structures within parkways, if the distance between the edge of the structure and the sidewalk is less than 18", then the tops to said structures shall be constructed to the full width of the parkway.

306-1.1 Trench Excavation

306-1.1.1 General

(p. 320) Delete third paragraph and replace with the following:

The Contractor shall furnish, install, and operate such pumps, well points or other devices as may be necessary to remove any sub-surface water, seepage, storm water, or sewage that may be encountered during the construction. The trenches and other excavations shall be kept free from water while concrete or pipe is being installed. Water shall be disposed of in accordance with all Federal, State, or local agency requirements and in such a manner as to cause no injury to public or private property, nor be a menace to public health.

306-1.2 Installation of Pipe

306-1.2.1 Bedding

(p. 322) Delete fourth paragraph and add the following:

Except where otherwise specified, all non-reinforced and reinforced concrete pipe and all asbestos cement pipe shall be installed using the standard installation. Standard installations for reinforced concrete pipe shall consist of trench and pipe bedding as shown on Regional Standard Drawing No. D-60 except that the one-inch graded crushed aggregate rock shall extend up to the upper half (spring line) of the pipe. The remainder of the bedding material shall be sand, gravel, crushed aggregate, native free draining granular material having a sand equivalent of not less than 30 or having a coefficient of permeability greater than 1.4 inches/hour, or other material approved by the Engineer.

Except where otherwise specified, all corrugated metal pipe and all plastic pipe 18 inches inside diameter and greater shall be installed using the standard installation. Standard installation for corrugated metal pipe and plastic pipe 18 inches inside diameter and greater shall consist of trench and pipe bedding as shown on Regional Standard Drawing No. D-60 except that the one-inch graded crushed aggregate rock shall extend up to the upper half (spring line) of the pipe. The remainder of the bedding material shall be sand.

Except where otherwise specified, all clay pipe shall be installed using "Type B rock to spring line" installation that shall consist of trench and pipe bedding as shown on

Regional Standard Drawing No. S-4. The remainder of the bedding material shall be as specified above for non-reinforced and reinforced concrete pipe and asbestos cement pipe.

Except where otherwise specified, all plastic pipe with an inside diameter of less than 18 inches shall be installed using a rock envelope installation which shall consist of trench and pipe bedding as shown on Regional Standard Drawing No. S-4, Type C.

306-1.2.2 **Pipe Laying**, Add:

(p. 323) In order to insure a true line and grade, grade stakes shall be set every 25 feet. Sewer pipe shall be laid through the manhole unless otherwise directed by the Engineer.

When sewer pipe is to be carried continuously through the manhole, the top portion of the pipe shall be removed after all other work is completed.

306-1.2.3 **Field Jointing of Clay Pipe**

(p. 324) Delete first sentence and replace with:

Unless otherwise indicated on the plans, all joints for sewers constructed of clay pipe shall be type "G" joints as contained in sub-section (2) of this section.

The Contractor may submit for approval any other type of joint that he believes is equal or superior to those specified. Said alternate shall be submitted in writing at least fifteen (15) days in advance of the start of the work. The City Engineer shall be the sole judge as to whether any material submitted for approval is equal or superior to those specified. No unspecified material shall be used until approved by the City Engineer.

(pg. 325) Add sub-section (d) as follows:

No sewer shall be broken into except in the presence of the Engineer. The connection shall be made with a standard vitrified clay saddle constructed with lugs to prevent protrusion through the pipe. The hole in the sewer shall be made midway between joints. It shall be made with extreme care starting with as small a hole as possible and carefully enlarged so as to provide a hole approximately 1/4" larger than the outside diameter of the saddle. The saddle shall be mortared in place, filling the annular space between saddle and pipe wall with mortar composed of 1 part Portland cement to 2 parts of clean well-graded sand. The inside shall be wiped to provide a smooth joining of the saddle to the pipe wall.

No additional pipe may be joined to the saddle until the contractor receives approval of the saddle connection from the Engineer.

After the saddle has been mortared in place and approved by the Engineer, at least 6 strands of No. 10 galvanized wire shall be loosely wound around the pipe, 3 strands on each side of the saddle, 2 of which shall pass over the saddle. A ring of Class "A"

concrete at least 4 inches thick and 18 inches in length shall then be constructed entirely around the pipe at the location of the saddle.

306-1.2.12 **Field Inspection for Plastic Pipe & Fittings**, Add:

(p. 330) This section is also applicable to all plastic pipe and inserted liner whereby the annular space between the outer wall of the liner and inner wall of existing pipe being lined is pressure grouted.

306-1.3.3 **Water Densified Backfill**, Delete:

(p. 335)

306-1.4.8 **Balling of Sewers**, Add:

After completion of the sanitary sewer system, including televising sewer mains and the surfacing of the street, an approved type sewer ball equal to the diameter of the pipe shall be sent through the sewer from the uppermost structure to the lowermost structure. The contractor shall, at his own expense, furnish all materials for carrying out the operation and removing any obstructions that prevent the ball from traveling through the pipe.

306-1.4.8.1 **General Requirements**, Delete Paragraph 6 of the Regional Supplement Amendments and replace with:

6) For underground sewer or storm drain conduit installations, the maximum operation tolerance for sag shall be 0.5 inch. No sag shall be longer than 60 feet. When televised inspection is used to check for sag, a calibrated device acceptable to the Engineer shall be used to measure the depth of sag.

SECTION 307 - STREET LIGHTING

307-1.2 **Regulations and Codes**, Add:

(p. 367) Before commencing work, the contractor shall contact the San Diego Gas & Electric Company for any requirements regarding their distribution and transmission construction methods. Work shall conform to the "SDG&E" Service guide.

307-2.2 **Foundations**, Add:

(p. 368) Foundations shall be installed not less than 3 feet from driveway curb opening or fire hydrants.

307-2.3 **Standard and Steel Pedestals**, Add:

(p. 369)